

Course Title

RV-11545 - 2020 NEC® Changes: Focus on Wiring Methods

Contact Hours: 1

This interactive online course covers the changes in the Chapter 3 wiring method articles of the NEC, namely Articles 320 through 392 (AC cable through cable trays). Notable changes include new rules for cables in thermal insulation, a new article (337) for Type P cable, clarifying the different types of service entrance cables, clarifying the rules for stainless steel raceways and fittings, and addressing cable trays that utilize flanged openings.

Course Objectives:

By the end of this course, you will be able to:

- Identify the proper securing and supporting requirements for cables
- Determine when table 310.15 C1 has to be used for ampacity adjustments
- Name the conductors allowed for direct burial, and Given a conduit and environment, select the appropriate fittings
- List the permitted uses of liquid tight flexible metal conduit
- Discuss the changes for cable trays.

Content Outline

Introduction Course Overview	(1 minute)
Article 320 Armored Cable Type AC	(5 minutes)
Article 330 Metal Clad Cable Type MC	(5 minutes)
Article 334 Nonmetallic-Sheathed Cable Types NM and NMC	(5 minutes)
Article 336 Power and Tray Cable Type TC	(5 minutes)
Article 337 Type P Cable	(5 minutes)
Article 338 Service-Entrance Cable Types SE and USE	(5 minutes)
Article 340 Underground Feeder and Branch-Circuit Cable Type UF	(5 minutes)

Article 342 Intermediate Metal Conduit Type IMC	(5 minutes)
Article 350 Liquidtight Flexible Metal Conduit Type LFMC	(5 minutes)
Article 358 Electrical Metallic Tubing Type EMT	(5 minutes)
Article 380 Multioutlet Assembly	(5 minutes)
Article 392 Cable Trays	(5 minutes)
Conclusion Summary and Implications	(1 minute)

1. List of reference and source materials/bibliography

All material necessary to complete the course is included in the course. A subject matter expert using his or her own personal knowledge writes the course. Students are not directed to additional material as a requirement for course completion, only as added information for personal interest.

2. Instructor Information

Ryan Jackson – Resume Attached

3. Totals hours of Instruction

1 Hour(s) – this course is online and available 365/24/7 to anyone with internet access

4. Certificate of completion

sample is attached

5. Proof of compliance with interactive distance learning requirements

- a. Courses are being developed with interactivity as a key component in its development. RedVector's 'rule of thumb' is to insert an activity every 3 to 5 minutes or 500 to 800 words of text. We offer a variety of activities through the coursework to keep the user involved and requiring knowledge of the course materials being reviewed in order to move forwards.

- b. Users sign into an account with a unique User Name and Password. We request that a user agree to an affidavit stating that they are the owner of the account before proceeding to the exam. Course completion is measured by passing the exam with a minimum score of 75%.
- c. FL Contractors are notified at the beginning of the course that they are required to spend 50 minutes per credit hour in the course in order to receive an accreditation certificate. The LMS will not allow a certificate to be issued or reflect course completion until the time requirement is met by the user.
- d. By one click of the button on each screen of the coursework, the user is given the option to obtain information in several ways. We have a FAQ page, direct email request to Client Support or they may call through a Toll Free number. Our Client Support Team is available from 8 am to 6 pm, Monday thru Friday. If there is a general question, RedVector consults with several Subject Matter Experts that respond to questions in a timely manner. If the question is more specific requiring a direct response from the course author, communication is made with the author to provide the user a response.
- e. There is a statement required to be agreed upon by the User confirming their identity before and after taking the test.
- f. Each account is established with a unique user name and password in order to access. If a user is taking a longer than normal time to review a section, they will receive a pop-up and have 90 seconds to respond or their session will time out requiring the user to sign into the site again if they wish to continue the coursework.